ELSEVIER

Journal of Volcanology and Geothermal Research 67 (1995) 329–330

Journal of volcanology and geothermal research

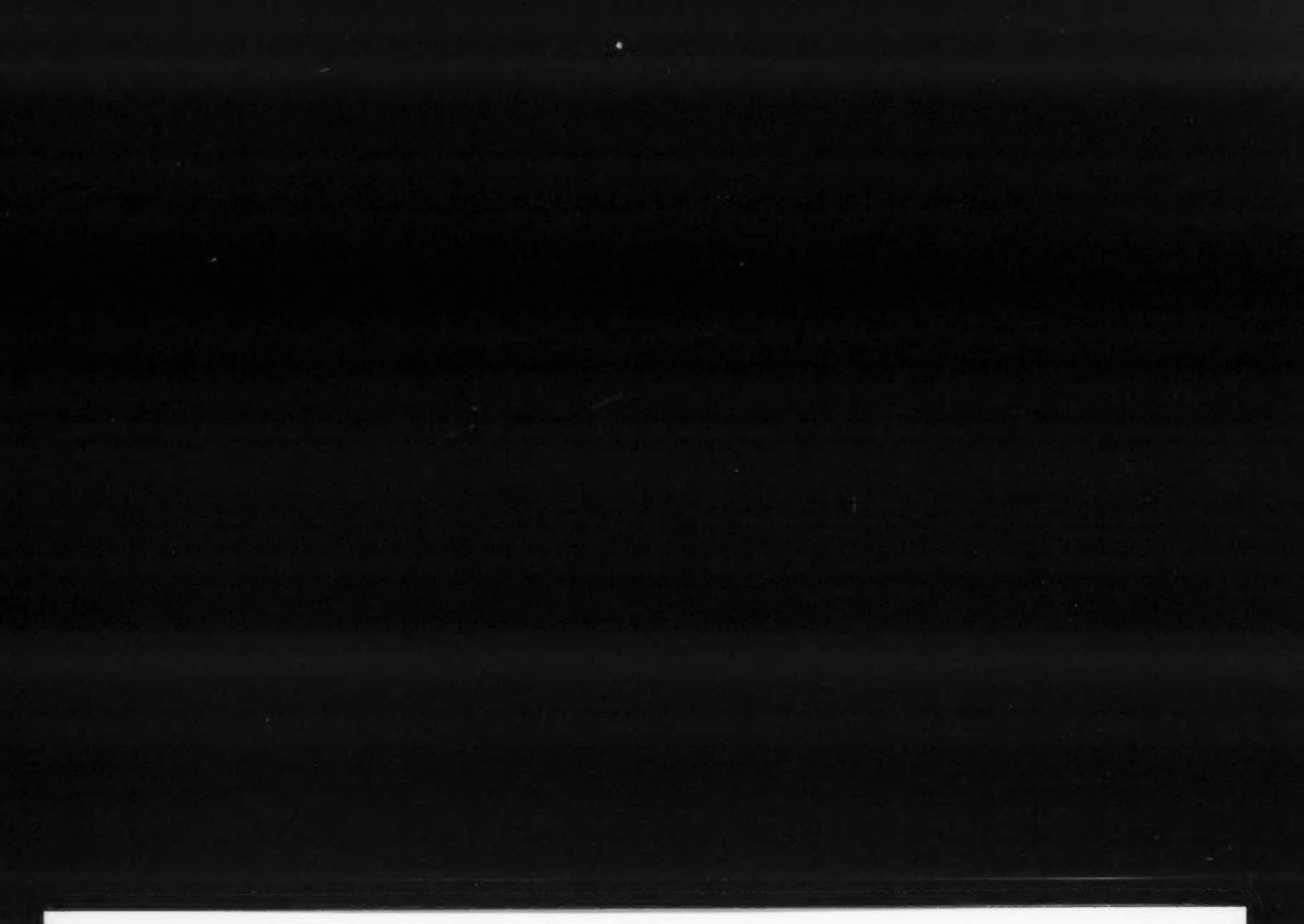
Contents Volume 67, 1995

Special Issue: Scientific Drilling and Caldera Processes

edited by J.N. Gardner and J.B. Hulen

Introduction
J.N. Gardner and J.B. Hulen vii
Crustal and magmatic evolution in a large multicyclic caldera complex: isotopic evidence from the central San Juan volcanic field
L.R. Riciputi, C.M. Johnson, D.A. Sawyer and P.W. Lipman 1
ESR dating of quartz phenocrysts in the El Cajete and Battleship Rock Members of Valles Rhyolite, Valles Caldera, New Mexico
S. Toyoda, F. Goff, S. Ikeda and M. Ikeya 29
Rhyolite intrusions in the intracaldera Bishop Tuff, Long Valley Caldera, California
V.S. McConnell, C.K. Shearer, J.C. Eichelberger, M.J. Keskinen, P.W. Layer and J.J. Papike 41
The behavior of light lithophile and halogen elements in felsic magma: geochemistry of the post-caldera Valles Rhyolites, Jemez Mountains Volcanic Field, New Mexico
J. Stix, G.D. Layne and T.L. Spell 61
A shallow attenuating anomaly inside the ring fracture of the Valles Caldera, New Mexico
P.M. Roberts, K. Aki and M.C. Fehler 79
Incremental collapse and stratocone growth within a funnel-shaped caldera, Guayabo, Costa Rica
S. Hallinan and G. Brown 101
Los Azufres silicic center (Mexico): inference of caldera structural elements from gravity, aeromagnetic, and geoelectric data
J.O. Campos-Enriquez and V.H. Garduño-Monroy 123
Insights on the thermal history of the Valles caldera, New Mexico: evidence from zircon fission-track analysis
H. Ito and K. Tanaka 153
Fluid inclusion evidence for rapid formation of the vapor-dominated zone at Sulphur Springs, Valles caldera, New Mexico, USA
M. Sasada and F. Goff 161
Mobility and depositional controls of radioelements in hydrothermal systems at the Long Valley and Valles calderas
H.A. Wollenberg, S. Flexser and A.R. Smith 171
The use of tritium in groundwater to determine fluid mean residence times of Valles caldera hydrothermal fluids, New Mexico, USA
L. Shevenell and F. Goff 187
Comparison of hydrothermal alteration of Carboniferous carbonate and siliclastic rocks in the Valles caldera with outcrops from the Socorro caldera, New Mexico
A.K. Armstrong, J.R. Renault and R.L. Oscarson 207

Research Papers

Delayed deposition of plinian pumice during phreatoplinian volcanism: the 1800-yr-B.P. Taupo eruption, New Zealand
R.T. Smith and B.F. Houghton 221
Bubble migration and the initiation of volcanic eruptions
D.M. Pyle and D.L. Pyle 227
Mid-Atlantic Ridge volcanism from deep-towed side-scan sonar images, 25°–29°N
D.K. Smith, J.R. Cann, M.E. Dougherty, J. Lin, S. Spencer, C. MacLeod, J. Keeton, E. McAllister, B. Brooks, R. Pascoe and W. Robertson 233
Eruptive mechanisms of the Neapolitan Yellow Tuff interpreted from stratigraphic, chemical, and granulometric data
K. Wohletz, G. Orsi and S. De Vita 263
Step-filling and development of a three-layers magma chamber: the Neapolitan Yellow Tuff case history
G. Orsi, L. Civetta, M. D'Antonio, P. Di Girolamo and M. Piochi 291

Hydrogeochemistry of the Campania region in southern Italy
V. Duchi, A. Minissale, O. Vaselli and M. Ancillotti 313